

SUPPORTING INFORMATION

Structural characterization of suppressor lipids by high-resolution mass spectrometry

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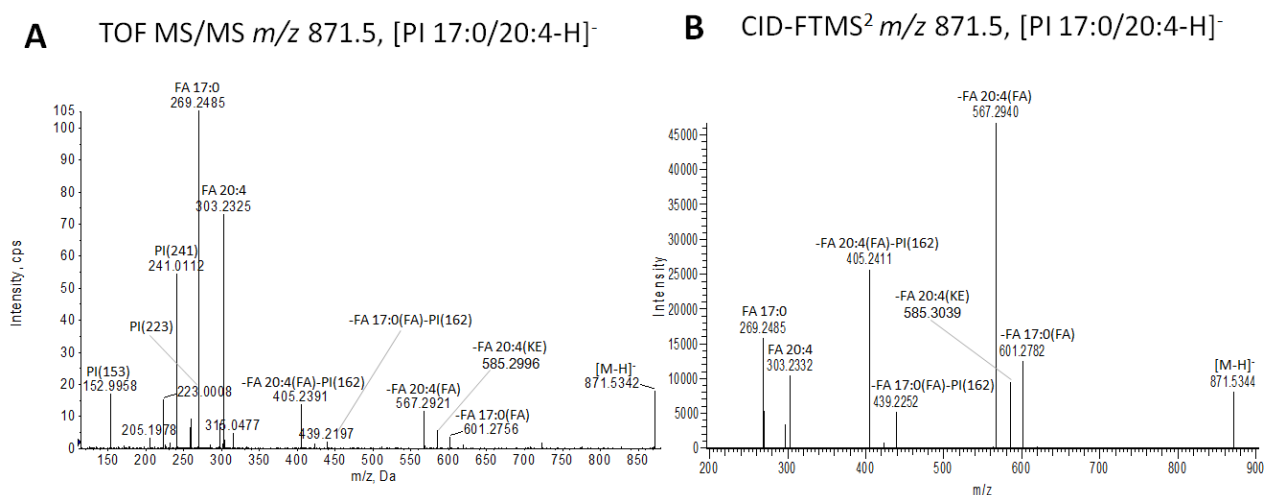


Figure S1. Structural characterization of synthetic PI 17:0/20:4. (A) TOF MS/MS spectrum of m/z 871.5 ([PI 17:0/20:4-H]⁻) acquired using CE at 64 eV. (B) FTMS² spectrum of m/z 871.5 ([PI 17:0/20:4-H]⁻) acquired using CID and CE at 34%.

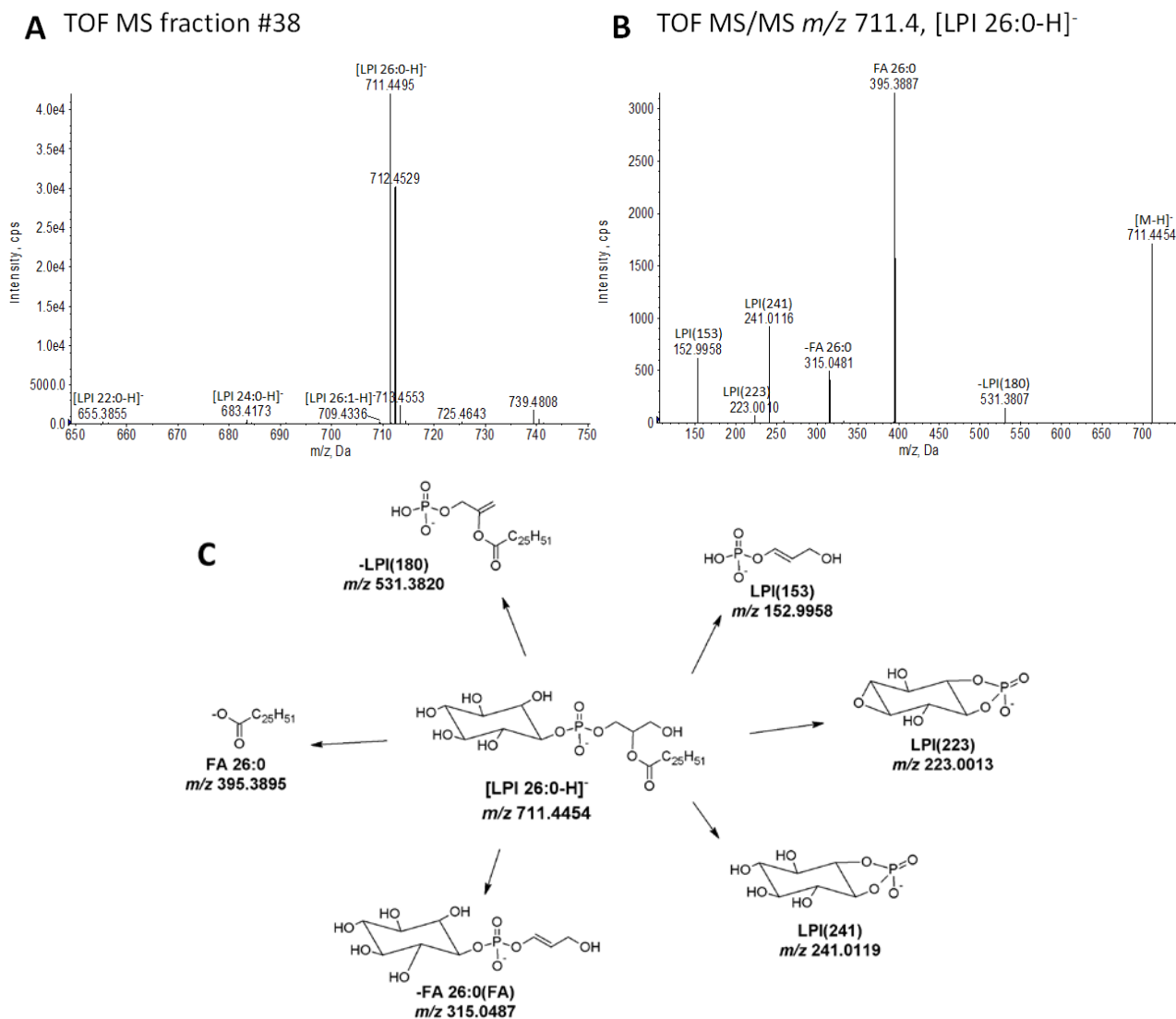


Figure S2. Structural characterization of LPI 26:0. (A) FTMS spectrum of fraction #38. (B) TOF MS/MS spectrum of m/z 711.4 ([LPI 26:0-H]⁻). (C) Tentative structures and predominant fragmentation pathways of LPI 26:0. Specified m/z values are calculated based on the chemical composition of depicted structures.

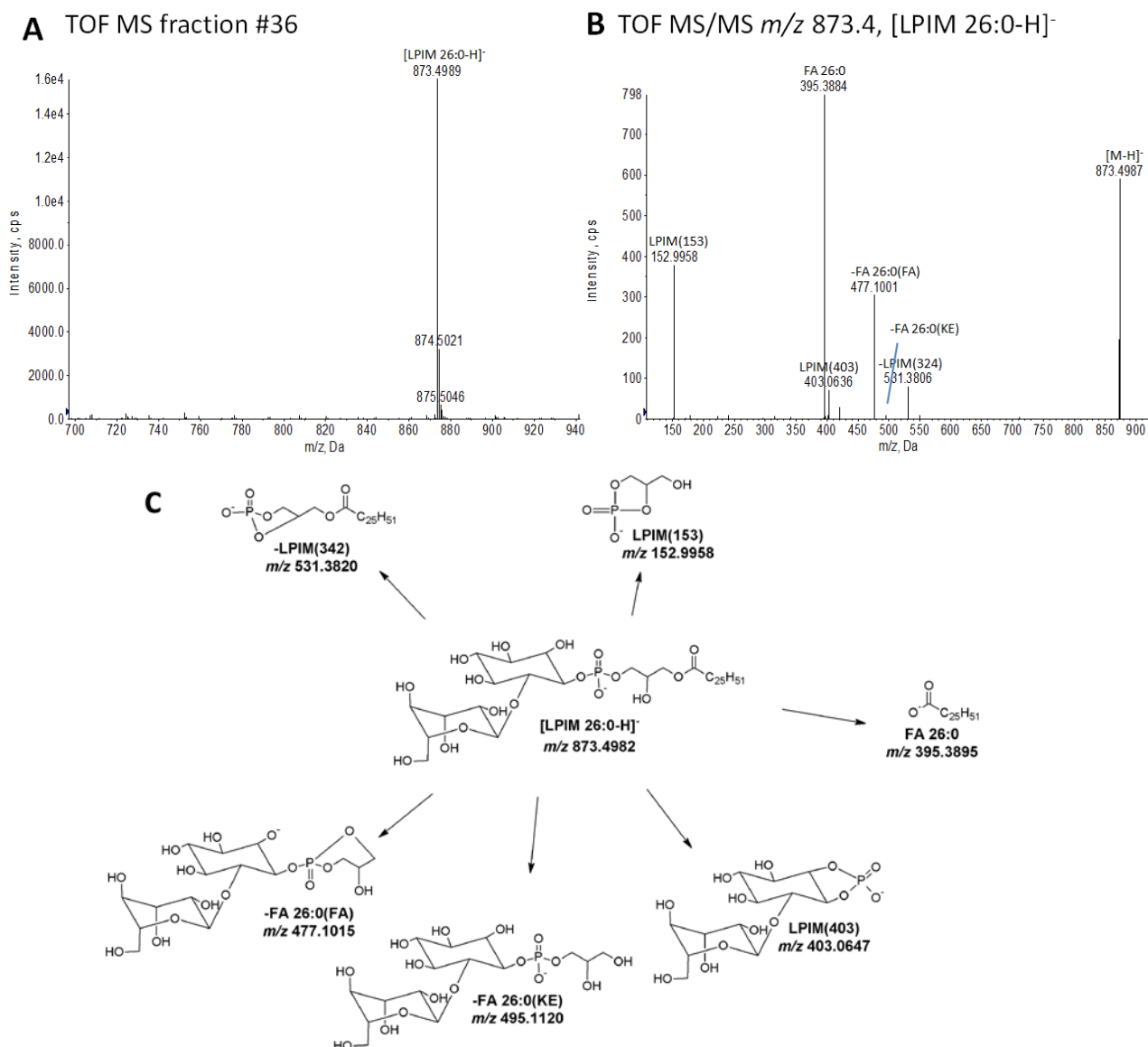


Figure S4.

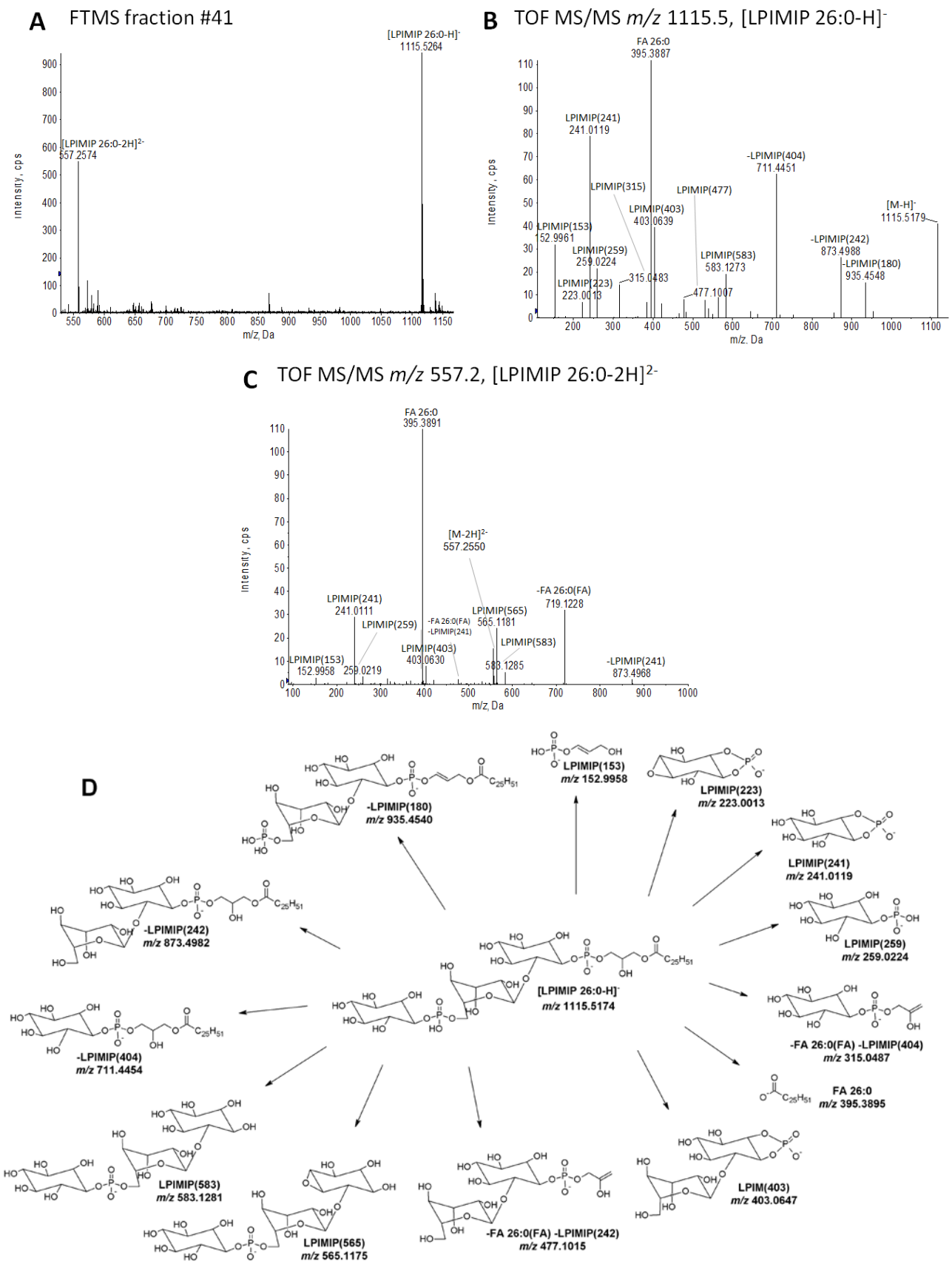


Figure S4 (continued).

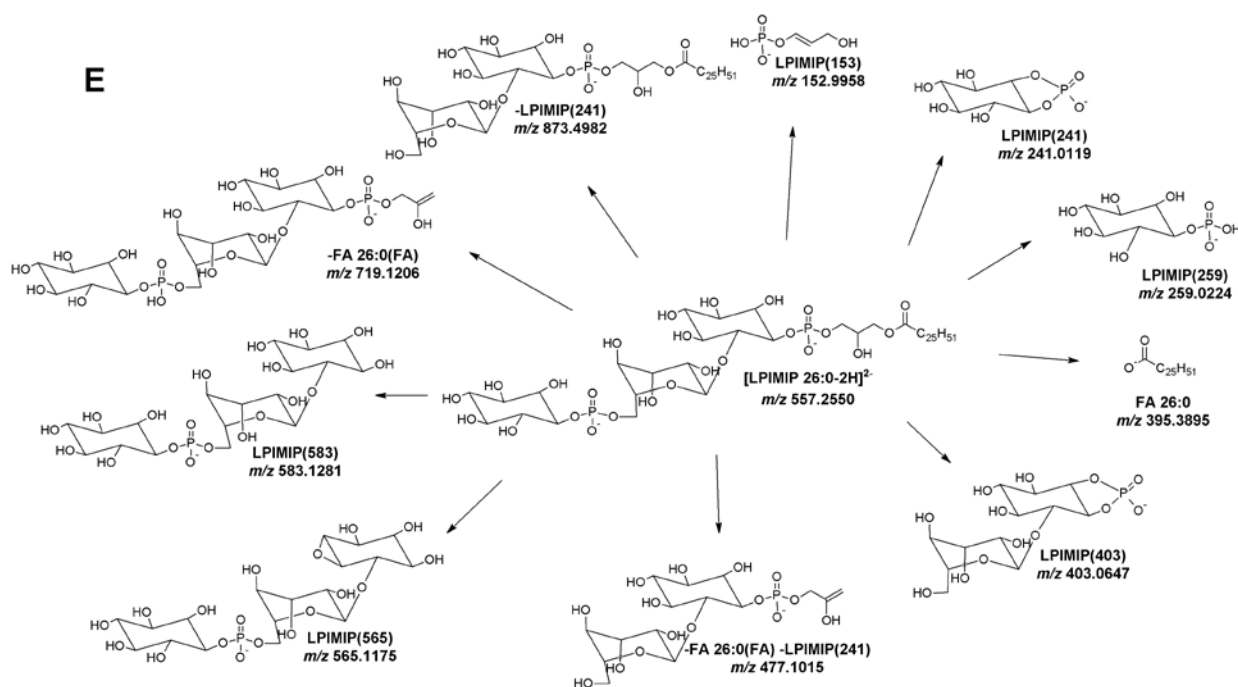


Figure S4. Structural characterization of LPIMIP 26:0. (A) FTMS spectrum of fraction #41. (B) TOF MS/MS spectrum of $m/z\ 1115.5$ ($[LPIMIP\ 26:0-H]^+$). (C) TOF MS/MS spectrum of $m/z\ 557.2$ ($[LPIMIP\ 26:0-2H]^2+$). (D) Tentative structures and predominant fragmentation pathways of singly charged LPIMIP 26:0. (E) Tentative structures and predominant fragmentation pathways of doubly charged LPIMIP 26:0. Specified m/z values are calculated based on the chemical composition of depicted structures.